

This listing of claims replaces all prior versions, and listings of claims in the instant application:

Listing of Claims:

1. (Currently Amended) A method for presenting a runtime environment component service by a first computer system to a second computer system over a communication network, said method being performed by said first computer system and comprising:

generating a user interface infrastructure, on said first computer system, to receive graphic user interface events from a lightweight component on said second computer system and to send remote graphic user interface commands to said lightweight component on said second computer system, wherein said remote graphic user interface commands are used in generating a user interface on said second computer system for a user of said runtime environment component service on said first computer system; and

using said user interface infrastructure to initialize said runtime environment component service on said first computer system wherein said runtime environment component service sends graphic user interface commands to said user interface infrastructure on said first computer system wherein said second computer system comprises a client device and said first computer system comprises a server device.

2. (Previously Presented) The method of Claim 1 further comprising:

receiving by said user interface infrastructure a remote input action event via said communication network, said remote input action event being generated in said second computer system by said lightweight component

corresponding to said runtime environment component service on said first computer system.

3. (Original) The method of Claim 2 further comprising:
transmitting an input event to said runtime environment component service by said user interface infrastructure in response to said remote input action event.

4. (Original) The method of Claim 3 further comprising:
processing said input event by said runtime environment component service.

5. (Original) The method of Claim 4 further comprising:
generating a graphic user interface command to said user interface infrastructure by said runtime environment component service.

6. (Original) The method of Claim 5 further comprising:
transmitting a remote graphic user interface command to said lightweight component by said graphic user interface infrastructure in response to said graphic user interface command.

7. (Currently Amended) A method for presenting a runtime environment component service by a first computer system to a second computer system over a communication network, said method being performed by said first computer system and comprising:

receiving a remote input action command for a runtime environment component service on said first computer system via said communication network, said remote input action command being generated in said second computer system by a lightweight component corresponding to said

runtime environment component service on said first computer system;

transmitting a local input action command to said runtime environment component service in response to said remote input action command;

processing said local input action command by said runtime environment component service;

generating a local output command by said runtime environment component service for a graphical user interface infrastructure on said first computer system; and

transmitting a remote output command to said lightweight component in response to said local output command wherein said remote output command is used in generating a user interface on said second computer system for a user of said runtime environment component service on said first computer system and further wherein said second computer system comprises a client device and said first computer system comprises a server device.

8. (Original) The method of Claim 7 wherein said runtime environment component service is in an office application suite.

9. (Previously Presented) The method of Claim 7 wherein said method further comprises:

receiving said local output command by a local window object on said first computer and in response generating said remote output command by said local window object

10. (Previously Presented) The method of Claim 7 wherein said method further comprises:

receiving said remote input action command by a local window object on said first computer system and in

response generating said local input action command by said local window object.

11. (Original) The method of Claim 9 wherein said method further comprises:

receiving said remote input action command by said local window object, and in response generating said local input action command by said local window object.

12. (Original) The method of claim 10 wherein said remote input action command is a user interface event.

13. (Original) The method of claim 11 wherein said remote input action command is a user interface event.

14. (Currently Amended) A method comprising:

receiving a command by a service executing on a server computer system to create an infrastructure for executing a runtime environment component service on said server computer system, wherein said command is from a component executing on a client user device; and

issuing an instruction by said server computer system to create an instance of a remote frame window on said client user device.

15. (Currently Amended) The method of Claim 14 further comprising:

generating an instance of a local window on said server computer system by said service, wherein said local window issues remote instructions to said remote window frame in response to instructions from said runtime environment component service.

16. (Original) The method of Claim 15 further comprising:

querying said remote frame window by said local window to determine properties of said remote frame window.

17. (Currently Amended) The method of Claim 15 further comprising:

generating, on said server computer system, a local frame for said local window.

18. (Currently Amended) The method of Claim 17 further comprising:

receiving, by said local frame, a command from said client user device to load a document.

19. (Currently Amended) The method of Claim 18 further comprising:

issuing, in response to said command to load a document, a command by said local frame to said runtime environment component service to create an instance of a runtime environment component service window on said server computer system.

20. (Original) The method Claim 19 further comprising;
issuing a command by said local frame to said runtime environment component service to load said document in said runtime environment component service window.

21. (Original) The method of Claim 20 further comprising:

issuing a command from said runtime environment component service to said local window to display said document.

22. (Currently Amended) A method for enabling a user device to run a runtime environment component on another computer, said method comprising:

- running a browser on said user device; and
- running a lightweight component within said browser, wherein said lightweight component receives user input actions on said user device and generates corresponding user interface events to said another computer for processing by said runtime environment component on said another computer system, wherein said user device comprises a client device and said another computer comprises a server device.

23. (Previously Presented) The method of Claim 22 further comprising:

- downloading said lightweight component into said user device.

24. (Withdrawn) A computer program product comprising computer code comprising:

- a remote frame window class comprising:
 - a remote output device interface; and
 - a remote frame window interface.

25. (Withdrawn) The computer program product of Claim 24 wherein said computer code further comprises:

- a bean frame class comprising a frame interface.

26. (Withdrawn) The computer program product of Claim 24 wherein said computer code further comprises:

- a bean window class comprising:
 - an event handler interface; and
 - an window peer interface.

27. (Withdrawn) The computer program product of Claim 24 wherein said computer code further comprises:

an abstract windowing toolkit.

28. (Currently Amended) A computer program product comprising computer code for a method for presenting a runtime environment component service by a first computer system to a second computer system over a communication network, said method being performed by said first computer system, said method comprising:

generating a user interface infrastructure, on said first computer system, to receive graphic user interface events from a lightweight component on said second computer system and to send remote graphic user interface commands to said lightweight component on said second computer system, wherein said remote graphic user interface commands are used in generating a user interface on said second computer system for a user of said runtime environment component service on said first computer system; and

using said user interface infrastructure to initialize said runtime environment component service on said first computer system wherein said runtime environment component service sends graphic user interface commands to said user interface infrastructure on said first computer system wherein said second computer system comprises a client device and said first computer system comprises a server device.

29. (Currently Amended) A computer program product comprising computer code for a method for presenting a runtime environment component service by a first computer system to a second computer system over a communication network, said

method being performed by said first computer system and comprising:

receiving a remote input action command for a runtime environment component service on said first computer system via said communication network, said remote input action command being generated in said second computer system by a lightweight component corresponding to said runtime environment component service on said first computer system;

transmitting a local input action command to said runtime environment component service in response to said remote input action command;

processing said local input action command by said runtime environment component service;

generating a local output command by said runtime environment component service for a graphical user interface infrastructure on said first computer system; and

transmitting a remote output command to said lightweight component in response to said local output command wherein said remote output command is used in generating a user interface on said second computer system for a user of said runtime environment component service on said first computer system and further wherein said second computer system comprises a client device and said first computer system comprises a server device.